

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT > ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 8-20-81		SEP 11 1981		
Company: Mesa Petroleum Co. ✓				Connection: UNCONNECTED				Unit: O. C. D.	
Pool: UNDESIGNATED ABO				Formation: ABO				ARTESIA OFFICE	
Completion Date: 8-20-81		Total Depth: 4350		Plug Back TD: 4310		Elevation: 3837		Farm or Lease Name: COMER	
Csg. Size: 4 1/2"	Wt.: 10.5	d:	Set At: 4350	Perforations: From 3686 To 3884		Well No.: 2			
Tub. Size: 2 3/8"	Wt.: 4.7	d:	Set At: 3586	Perforations: From OPEN ENDED To		Unit Sec. Twp. Rge.: "I" 17 5S 25E			
Type Well - Single - Brazenhead - G.G. or G.O. Multiple: SINGLE					Packer Set At: NONE		County: CHAVES		
Producing Thru: TUBING		Reservoir Temp. °F: 104° @ 4350		Mean Annual Temp. °F: 60		Baro. Press. - P _g : 13.2		State: NEW MEXICO	
L: 3586	H: 3586	G _g : .65	% CO ₂ : 1	% N ₂ : 2	% H ₂ S:	Prover: CHOKE	Meter Run:	Taps:	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							910		825		60 hrs.
1.	CHOKE		16/64	860		75	860	80	790		1 hr.
2.	COEFFIC.		19/64	790		75	790	80	750		1 hr.
3.			22/64	730		75	730	80	705		1 hr.
4.			25/64	670		75	670	80	670		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	1.050	CHOKE	873	.9813	1.240		1115
2	1.484	CHOKE	803	.9813	1.240		1450
3	1.999	CHOKE	743	.9813	1.240		1807
4	2.587	CHOKE	683	.9813	1.240		2150
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
					Specific Gravity Separator Gas _____ X X X X X X X X	
					Specific Gravity Flowing Fluid _____ X X X X X	
					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
					Critical Temperature _____ R _____ R	

P _c 838	P _c ² 702		
NO.	P _t ²	P _w	P _w ²
1		803	645
2		763	582
3		718	516
4		683	466
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 3.7742$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,900$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1320$$

Absolute Oper. Flow: 3,900	Mcf @ 15.025	Angle of Slope θ: 60°	Slope, n: .57
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Remarks: _____

Approved By Commission:	Conducted By: <i>EEB</i> JAMES CDATC	Calculated By: <i>EEB</i> F I RUTROSS, JR.	Checked By:
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